

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

TRANSLATION
PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

04F001-PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2004/000174

International filing date (day/month/year)

14.01.2004

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC

Applicant

NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/000174

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

This opinion has been established on the basis of a translation from the original language into the following language

_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

- a. type of material

☐

a sequence listing

☐

table(s) related to the sequence listing

- b. format of material

☐

in written format

☐

in computer readable form

- c. time of filing/furnishing

☐

contained in the international application as filed.

☐

filed together with the international application in computer readable form.

☐

furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/000174

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims

YES

Claims 1-12

NO

Inventive step (IS)

Claims

YES

Claims 1-12

NO

Industrial applicability (IA)

Claims

YES

Claims 1-12

NO

2. Citations and explanations:

Claims 1-12

Document 1: Masatoshi YASU et al., Reverse Link Performance Improvement for Dynamic Parameter Controlled OFDM Using Alamouti Coded Heterogeneous Polarization Antennas, The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 08 January 2004, Vol.103, No.552, pages 25 to 30, RCS2003-248

Document 1 describes a STBC/OFDM system in which two transmitting antennas having orthogonal polarities and two receiving antennas are disposed nonconcurrently, respectively. Therefore, the inventions of claims 1-12 appear to possess no exceptional point.

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International application No.

PCT/JP2004/000174

Box No. 1

Basis of this opinion

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims

1-12

YES

Claims

NO

Inventive step (IS)

Claims

1-12

YES

Claims

NO

Industrial applicability (IA)

Claims

1-12

YES

Claims

NO

2. Citations and explanations:

Claims 1-12

Document 1: Masatoshi YASU et al., Reverse Link Performance Improvement for Dynamic Parameter Controlled OFDM Using Alamouti Coded Heterogeneous Polarization Antennas, The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 08 January 2004, Vol.103, No.552, pages 25 to 30, RCS2003-248

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